

Benzophenone, 4-hexadecyloxy-2-hydroxy-

Inchi:	InChI=1S/C29H42O3/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-18-23-32-26-21-22-27(28(30)29)
InchiKey:	CSGHZFMNVVSDIF-UHFFFAOYSA-N
Formula:	C29H42O3
SMILES:	CCCCCCCCCCCCCCCCOc1ccc(C(=O)c2ccccc2)c(O)c1
Mol. weight [g/mol]:	438.64
CAS:	3457-17-8

Physical Properties

Property code	Value	Unit	Source
gf	19.95	kJ/mol	Joback Method
hf	-602.41	kJ/mol	Joback Method
hfus	67.13	kJ/mol	Joback Method
hvap	107.53	kJ/mol	Joback Method
log10ws	-9.38		Crippen Method
logp	8.483		Crippen Method
mcvol	385.260	ml/mol	McGowan Method
pc	1001.44	kPa	Joback Method
tb	1078.17	K	Joback Method
tc	1320.43	K	Joback Method
tf	665.83	K	Joback Method
vc	1.433	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1345.44	J/molxK	1078.17	Joback Method
cpg	1435.84	J/molxK	1280.06	Joback Method
cpg	1418.61	J/molxK	1239.68	Joback Method
cpg	1401.13	J/molxK	1199.30	Joback Method
cpg	1383.22	J/molxK	1158.92	Joback Method
cpg	1364.72	J/molxK	1118.55	Joback Method
cpg	1452.97	J/molxK	1320.43	Joback Method
dvisc	0.0000006	Paxs	1078.17	Joback Method
dvisc	0.0000009	Paxs	1009.45	Joback Method

dvisc	0.0000013	Paxs	940.72	Joback Method
dvisc	0.0000022	Paxs	872.00	Joback Method
dvisc	0.0000039	Paxs	803.28	Joback Method
dvisc	0.0000078	Paxs	734.55	Joback Method
dvisc	0.0000180	Paxs	665.83	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3457178&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/83-042-3/Benzophenone-4-hexadecyloxy-2-hydroxy.pdf>

Generated by Cheméo on 2024-04-27 19:05:37.754845104 +0000 UTC m=+16533986.675422430.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.